

From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: THOMAS A. CAWLEY, JR. PILLSBURY WINTHROP LLP P.O. BOX 10500

MCLEAN, VA 22102

PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of Mailing (day/month/year)

06 DEC 2004

Applicant's or agent's file reference

International application No.

37003-304483

International filing date (day/month/year)

IMPORTANT NOTIFICATION

Priority date (day/month/year)

PCT/US03/19652

23 June 2003 (23.06.2003)

21 June 2002 (21.06.2002)

Applicant

IDEC PHARMACEUTICALS CORP.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Mail Stop PCT, Attn: IPEA/US Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230

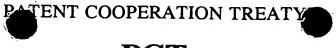
Authorized officer

PARALEGAL SPECIALIST
GROUP 1800

David J Blanchard

Telephone No. (571) 272-0827

Form PCT/IPEA/416 (July 1992)



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference			
37003-304483	FOR FURTHER ACTION	See Notification	on of Transmittal of International xamination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/mor	th/year)	Priority date (day/month/year)
PCT/US03/19652	23 June 2003 (23.06.2003)		21 June 2002 (21.06.2002)
International Patent Classification (IPC)	or national classification and IPC		
IPC(7): C07K 16/00; A61K 39/395 and	US Cl.: 530/387.1, 387.3, 388.1;	424/130.1, 133.	1, 181.1, 183.1
Applicant			
IDEC PHARMACEUTICALS CORP.			
Examining Authority and i	ary examination report has been is transmitted to the applicant ac	cording to Ar	ticle 36.
2. This REPORT consists of	a total of 🔑 sheets, including	this cover shee	et.
which have been ame before this Authority These annexes consist of a	nded and are the basis for this r (see Rule 70.16 and Section 60 total of sheets.	eport and/or s 7 of the Admir	description, claims and/or drawings heets containing rectifications made nistrative Instructions under the PCT).
3. This report contains indicate	tions relating to the following it	ems:	
I Basis of the repo	ort		
II Priority			
III Non-establishme	nt of report with regard to nove	elty, inventive	step and industrial applicability
IV Lack of unity of		,	otop and measural applicating
V Reasoned stateme	ent under Article 35(2) with regations and explanations supporti	gard to novelty	, inventive step or industrial
VI Certain documen		ng such statem	iciit
	n the international application		
	ons on the international applica	tion	
	on the international applica	uon	
Date of submission of the demand	Data	£ ====1==i	6.0
		f completion of	•
14 January 2004 (14.01.2004)		ember 2004 (01	.12.2004)
Name and mailing address of the IPEA/US Mail Stop PCT, Attn: IPEA/US	S Author	ized officer	DEBORAH A. THOMAS
Commissioner for Patents P.O. Box 1450	David	J Blanchard	PARALEGAL SPECIALIST
Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230		one No. (571) 2	272-0827
Form PCT/IPEA/409 (cover sheet)(July 199			

INTERNATIONAL PRELIMIT	EXAMINATION REPORT
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International acceptation No.	
PCT/US03/19	

I.	Bas	is of the report
1.	With	regard to the elements of the international application:*
	\boxtimes	the international application as originally filed.
	\boxtimes	the description:
		pages 1-24 as originally filed
		pages NONE , filed with the demand
		pages NONE , filed with the letter of
	\boxtimes	the claims:
		pages 25-38 , as originally filed
		pages NONE , as amended (together with any statement) under Article 19 pages NONE , filed with the demand
		pages NONE , filed with the letter of
	X	the drawings:
	لحكا	pages 1-7 , as originally filed
		pages NONE , filed with the demand
		pages NONE, filed with the letter of
		the sequence listing part of the description:
		pages NONE , as originally filed
		pages NONE , filed with the demand
2	XX/i+1	pages NONE, filed with the letter of
۷.	langi	regard to the language, all the elements marked above were available or furnished to this Authority in the page in which the international application was filed, unless otherwise indicated under this item.
	Thes	e elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	ಠ	the language of publication of the international application (under Rule 48.3(b)).
	Ħ	
	ш	the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).
3.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the
:	inten	national preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
		international application as filed has been furnished.
. =4		The statement that the information recorded in computer readable form is identical to the written sequence listing
		has been furnished.
4.		The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. NONE
		the drawings, sheets/fig NONE
5. [This report has been established as if (some of) the amendments had not been made, since they have been considered to go
•		beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
* R	eplac	ement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in
rus	ιερυι	as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). Splacement sheet containing such amendments must be referred to under item 1 and annexed to this report.
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International PCT/US03/1

1. STATEMENT			
Novelty (N)	Claims	Please See Continuation Sheet	YES
	Claims	Please See Continuation Sheet	NO
Inventive Step (IS)	Claims	Please See Continuation Sheet	YES
		Please See Continuation Sheet	NO
Industrial Applicability (IA)	Claims	Please See Continuation Sheet	YES
		Please See Continuation Sheet	NO

2. CITATIONS AND EXPLANATIONS

Please See Continuation Sheet

Form PCT/IPEA/409 (Box V) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International cation No.

PCT/US03/19652

VI. Certain documents cited

1. Certain published documents (Rule 70.10)

Application No
<u>Patent No.</u>
US 2003/0113316 A1
US 2003/0138417 A1

Publication Date (day/month/year)
19 June 2003 (19.06.2003)
24 July 2003 (24.07.2003)

Filing Date
(day/month/year)
25 July 2002 (25.07.2002)
08 November 2002
(08.11.2002)

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure

Date of non-written disclosure (day/month/year)

Date of written disclosure referring to non-written disclosure (day/month/year)





International ation No. PCT/US03/1

Supp	lemental	Box
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(To be used when the space in any of the preceding boxes is not sufficient)

V.1. Reasoned Statements:

The opinion as to Novelty was positive (Yes) with respect to claims 13, 15-17, 19, 33, 35-39, 53, 55-59, 73, 75-79, 94-98, 102-121 The opinion as to Novelty was negative (No) with respect to claims 1-12, 14, 18-19, 32, 34, 40-52, 54, 60-72, 74, 80-93, 99-101

The opinion as to Inventive Step was positive (Yes) with respect to claims NONE

The opinion as to Inventive Step was negative(NO) with respect to claims 1-121

The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-121

The opinion as to Industrial Applicability was negative(NO) with respect to claims NONE

Claims 1-12, 14 and 18-19 lack novelty under PCT Article 33(2) as being anticipated by Kakuta et al.

Claims 1-12, 14 and 18-19 are drawn to antibody compositions consisting essentially of histidine or acetate buffer at concentration ranges of 2mM to about 48mM; 3mM to about 48mM, 4mM to about 45mM; 5mM to about 40mM; 20mM to about 25mM and the pH is in the range from about 4-7.5; 4.5-7; 5-6.5; 5.5-6 and the antibodies are chimeric or humanized and the concentration of the antibodies is at least 50 mg/mL and at least 100 mg/mL.

Kakuta et al teach antibody compositons in histidine buffer having various concentration ranges that overlap or touch the claimed buffer concentration ranges (e.g., see pages 4-6 and example 6) as well as the claimed pH ranges and the antibodies are chimeric or humanized (see pages 7-8) and the antibodies are preferably at least 100 mg/mL (see page 13). The teachings of Kakuta et al are sufficiently specific that the skilled artisan would readily envisage the instantly claimed buffer concentrations, pH values, and antibody concentrations from the teachings of Kakuta et al.

Claims 1-12, 14, 18, 20-32, 34, 40-52, 54, 60-72, 74, 80-93 and 99-101 lack novelty under PCT Article 33(2) as being anticipated by Lam et al

The claims have been described supra. Claims 20-32, 34, 40-52, 54, 60-72, 74, 80-93 and 99-101 are drawn to the antibody compositions that comprise antibodies that binds specific antigens (i.e., CD4, CD20) and a method for producing a concentrated antibody compositions by subjecting the initial antibody preparation to membrane filtration, wherein the antibody compositions are in histidine or acetate buffers having the previously said concentration ranges and pH ranges. The concentrated antibody compositions may further comprise one or more pharmaceutically acceptable carriers to produce a pharmaceutical composition. The claims also encompass an improved method of therapy that includes administration of said pharmaceutical composition comprising said antibody compositions for treating a patient having cancer, allergic disorders, autoimmune diseases or lymphoma.

Lam et al teach antibody compositions and pharmaceutical compositions comprising monoclonal antibodies, chimeric or humanized antibodies in histidine or acetate buffers having a pH in the pH range from about 4.5-about 6.0, most preferably of about pH 5.0 and the pharmaceutical compositions comprise one or more pharmaceutically acceptable carriers, excipients or stabilizers (see entire document especially bridging paragraph of columns 22-23, columns 5-9 and 22-23 and Tables 1, 15 and 16). Lam et al teach an antibody composition comprising an anti-CD20 antibody in 25mM histidine at pH5, 6.5 or 7.5 (see Figure 24 and legend at column 4). Applicant is reminded that when by a recitation of ranges or otherwise, a claim covers several compositions, the claim is anticipated if one of them is in the prior art. See MPEP 2131.03. Lam et al teach antibody concentration using a protein concentration filter/ultrafiltration unit (see column 21, lines 33-37). Lam et al teach a method of therapy comprising administering said pharmaceutical compositions to a patient (preferably human; column 23, line 33) for treating disorders including rheumatoid arthritis (see column 24) (see columns 23-24).

International cation No. PCT/US03/1505/

(To be used when the space in any of the preceding boxes is not sufficient)

Claims 1-121 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

---NEW CITATIONS----

US 6,171,586 B1 (LAM et al) 9 January 2001, see entire document, especially bridging paragraph of columns 6-7, columns 7-10, 21-24, Table 1 and examples.

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From the

INTERNATIONAL	PRFI IMINADV	EVAMINING	ALITHODITY
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To: · THOMAS A. CAWLEY, JR. PILLSBURY WINTHROP LLP P.O. BOX 10500 MCLEAN, VIRGINIA 22102

NOTIFICATION OF RECEIPT OF DEMAND BY COMPETENT INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

(PCT Rules 59.3(e) and 61.1(b), first sentence and Administrative Instructions, Section 601(a))

Date of mailing (day/month/year)

24 MAY 2004

Applicant's or agent's file reference

37003-304483

IMPORTANT NOTIFICATION

International application No.

International filing date (day/month/year)

Priority date (day/month/year)

PCT/US03/19652

23 Jun 2003

21 Jun 2002

Applicant

IDEC PHARMACEUTICALS CORP.

1.	The applicant is hereby notified that this International Preliminary Examining Authority considers the following date as the date of receipt of the demand for international preliminary examination of the international application:
	14 JAN 04
2.	That date of receipt is: the actual date of receipt of the demand by this Authority (Rule 61.1(b)). the actual date of receipt of the demand on behalf of this Authority (Rule 59.3(e)). the date on which this Authority has, in response to the invitation to correct defects in the demand (Form PCT/IPEA/404), received the required corrections.
3.	ATTENTION: That date of receipt is AFTER the expiration of 19 months from the priority date. Consequently, the election(s) made in the demand does (do) not have the effect of postponing the entry into the national phase until 30 months from the priority date (or later in some Offices) (Article 39(1)). Therefore, the acts for entry into the national phase must be performed within 20 months from the priority date (or later in some Offices) (Article 22). For details, see the PCT Applicant's Guide, Volume II. (If applicable) This notification confirms the information given by telephone, facsimile transmission or in person on:
4.	Only where paragraph 3 applies, a copy of this notification has been sent to the International Bureau.
ame	and mailing address of the IPEA/ Authorized officer

Facsimile No. 703-305-3230

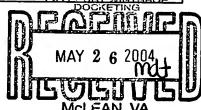
Form PCT/IPEA/402 (July 1998)

Mail Stop PCT, Commissioner for Patents

P.O. Box 1450, Alexandria, VA 22313-1450

Melvin Brooks, Sr.

Telephone No. (703) 305-5163



From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

To:

CAWLEY, Thomas, A., Jr. Pillsbury Winthrop LLP P.O. Box 10500 McLean, VA 22102 United States of America

Date of mailing (day/month/year) 03 October 2003 (03.10.03)	
Applicant's or agent's file reference 37003-304483	IMPORTANT NOTIFICATION
International application No. PCT/US03/19652	International filing date (day/month/year) 23 June 2003 (23.06.03)
International publication date (day/month/year)	Priority date (day/month/year)
Not yet published	21 June 2002 (21.06.02)

- 1. The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR". in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- 2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- 3. An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- 4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date Priority application No. Country or regional Office or PCT receiving Office of priority document

21 June 2002 (21.06.02) 60/390,191 US 30 Sept 2003 (30.09.03)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Farid ABBOU

Telephone No. (41-22) 338 8169

Facsimile No. (41-22) 338.70.10

From the INTERNATIONAL BUREAU

PCT

INFORMATION CONCERNING ELECTED OFFICES NOTIFIED OF THEIR ELECTION

(PCT Rule 61.3)

CAWLEY, Thomas, A., Jr. Pillsbury Winthrop LLP P.O. Box 10500 McLean, VA 22102

United States of America

Date of mailing (day/month/year)
07 July 2004 (07.07.2004)

Applicant's or agent's file reference

IMPORTANT INFORMATION

International application No. PCT/US2003/019652

37003-304483

International filing date (day/month/year) 23 June 2003 (23.06.2003)

Priority date (day/month/year)
21 June 2002 (21.06.2002)

Applicant

IDEC PHARMACEUTICALS CORPORATION et al

1. The applicant is hereby informed that the International Bureau has, according to Article 31(7), notified each of the following Offices of its election:

EP:AT,BE,BG,CH,CY,CZ,DE,DK,EE,ES,FI,FR,GB,GR,HU,IE,IT,LU,MC,NL,PT,RO,SE,

SI,SK,TR

National :BG,CA,CN,DE,IL,JP,KP,KR,MN,NO,PL,RO,RU,SK,US

2. The following Offices have waived the requirement for the notification of their election; the notification will be sent to them by the International Bureau only upon their request:

AP:GH,GM,KE,LS,MW,MZ,SD,SL,SZ,TZ,UG,ZM,ZW

EA:AM,AZ,BY,KG,KZ,MD,RU,TJ,TM

OA:BF,BJ,CF,CG,CI,CM,GA,GN,GQ,GW,ML,MR,NE,SN,TD,TG

National :AE,AG,AL,AM,AT,AU,AZ,BA,BB,BR,BY,BZ,CH,CO,CR,CU,CZ,DK,DM,DZ,EC,EE,ES,FI,GB,GD,GE,GH,GM,HR,HU,ID,IN,IS,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA,

MD,MG,MK,MW,MX,MZ,NI,NZ,OM,PG,PH,PT,SC,SD,SE,SG,SL,TJ,TM,TN,TR,TT,TZ,UA,

UG,UZ,VC,VN,YU,ZA,ZM,ZW

3. The applicant is reminded that he must enter the "national phase" before the expiration of 30 months from the priority date before each of the Offices listed above. This must be done by paying the national fee(s) and furnishing, if prescribed, a translation of the international application (Article 39(1)(a)), as well as, where applicable, by furnishing a translation of any annexes of the international preliminary examination report (Article 36(3)(b) and Rule 74.1).

Some offices have fixed time limits expiring later than the above-mentioned time limit. For detailed information about the applicable time limits and the acts to be performed upon entry into the national phase before a particular Office, see Volume II of the PCT Applicant's Guide.

The entry into the European regional phase is postponed until 31 months from the priority date for the purposes of obtaining a European patent.

PILLSBURY WINTHROP LLP/VA

JUL 2 1 2004

CL 037008 MT# 0304483
ATTY(S) N/A
DUE: N/A

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer:

Emmanuel BERROD (Fax 338 7010)

Telephone No. (41-22) 338 8389